

XINTONG WANG

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🎓 EDUCATION

National University of Singapore, Singapore, Singapore 2024 – Present

Ph.D in Computer Science

Beijing Forestry University, Beijing, China 2018 – 2022

B.S. in Mathematics

👤 WORKING EXPERIENCE

National University of Singapore Singapore, Singapore Oct 2023 – Aug 2024

Research Assistant

- Designed and developed a phoneme-based Automatic Speech Recognition (ASR) model for non-native Chinese speech.
- Built a Text-to-Speech (TTS) model capable of generating Chinese with a Singaporean accent.

Xiaobing.ai Beijing, China Jul 2022 – Oct 2023

Machine Learning Engineer

- Designed and developed the multi-lingual Singing Voice Synthesis (SVS) acoustic model and High-Fidelity Singing Voice Vocoders.
- Researched and implemented a few-shot Singing Voice Conversion (SVC) model.
- Conducted research and built a model for phoneme timestamps prediction.
- Deployed and maintained the ASR service.

📖 PUBLICATIONS

- Pitch-Aware RNN-T for Mandarin Chinese Mispronunciation Detection and Diagnosis Interspeech 2024
- Crosssinger: A Cross-Lingual Multi-Singer High-Fidelity Singing Voice Synthesizer
Trained on Monolingual Singers ASRU 2023
- A 2D Convolutional Gating Mechanism for Mandarin Streaming Speech Recognition Information 2021

☁️ INTERNSHIP

Xiaobing.ai Beijing, China May 2021 – Jul 2022

- Built N-gram Language Models from a large-scale corpus.
- Developed a hard-coded program to synthesize mashup songs from MIDI files.